

**Inter-Project Agreement (IPA)  
Between the SeaWinds  
Scatterometer (SeaWinds) Project  
and the Earth Science Data and  
Information System (ESDIS) Project  
for Science Data Archive and  
Distribution Support**

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National Aeronautics and  
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Goddard Space Flight Center \_\_\_\_\_  
Greenbelt, Maryland

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PROJECT  
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SCIENCE DATA ARCHIVE AND DISTRIBUTION SUPPORT

Reviewed By:

\_\_\_\_\_  
Donald J. Collins, Manager  
Physical Oceanography  
Distributed Active Archive Center

\_\_\_\_\_  
Date

\_\_\_\_\_  
Thomas J. Fouser  
Project Element Manager  
SeaWinds Ground Data System

\_\_\_\_\_  
Date

Approved By:

\_\_\_\_\_  
James E. Graf, Manager  
SeaWinds Project

\_\_\_\_\_  
Date

\_\_\_\_\_  
Arthur F. Obenschain  
ESDIS Project Manager  
Code 423

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Date

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## **1. INTRODUCTION**

### **1.1 Background**

NASA established the SeaWinds Scatterometer Project to develop a space-based system to measure surface wind speeds and directions over at least 90% of the ice free global oceans every two days in all weather and cloud conditions. SeaWinds is built and its data is processed by the Jet Propulsion Laboratory (JPL) Space and Earth Science Programs Directorate (SESPD). SeaWinds will fly on the National Space Development Agency of Japan (NASDA) launched and operated ADEOS II spacecraft.

The Earth Science Data and Information System (ESDIS) Project is responsible for the development, management and operation of the EOS Data and Information System (EOSDIS). EOSDIS will archive and distribute data products from instruments on-board Earth observing satellites, such as SeaWinds on ADEOS II.

### **1.2 Scope**

In accordance with Mission to Planet Earth Level 1 requirements, the ESDIS Project has joint responsibility with flight projects for documenting agreements for providing the archiving and distribution of data products from those flight projects serviced by the EOSDIS.

The Inter-Project Agreement (IPA) between ESDIS and the SeaWinds Project defines the responsibilities that support the transfer of the SeaWinds data products to EOSDIS and the archiving and distribution of SeaWinds data products to the Earth science community. This IPA describes the allocation of these responsibilities between the ESDIS and the SeaWinds Projects.



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## **2. PURPOSE**

The purpose of this document is to define the responsibilities, activities and processes of the SeaWinds Project and the ESDIS Project for the processing, transfer, archive and distribution of SeaWinds data. Specifically, this document will:

- 2.1 Define the activities to be performed for the transfer of the SeaWinds data products to the EOSDIS.
- 2.2 Define the activities to be performed for the archiving and distribution of SeaWinds data products within EOSDIS.
- 2.3 Define the responsibilities of the SeaWinds and ESDIS Projects for SeaWinds data processing and archiving and distribution of SeaWinds data products.
- 2.4 Define the process for establishing and updating the implementation schedule.
- 2.5 Define the funding responsibilities for each element.
- 2.6 Define responsibilities for status reporting, coordination activities, and managing change during both implementation and operations phases.

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### **3. OVERVIEW**

The SeaWinds Project and the ESDIS Project will jointly satisfy the NASA ground system requirements for the SeaWinds science experiment. The SeaWinds Project will perform instrument operations and data processing. The ESDIS Project will archive and distribute data products.

The ESDIS Project, using the EOSDIS JPL Physical Oceanography Distributed Active Archive Center (JPL PO.DAAC), will distribute science products to science investigators, sister agencies, international partners and the general science community and will archive all processed data and relevant material, as mutually agreed. The JPL PO.DAAC will additionally install and test, with the SeaWinds Project, communication and other necessary archive and distribution capabilities, document any JPL PO.DAAC value-added processing, and assist data users with information related to archive and distribution functions. The JPL PO.DAAC will also populate appropriate directories with descriptive information, metadata and inventory entries and will report distribution statistics.

The SeaWinds and ESDIS Projects will mutually agree on scheduling milestones and coordinate reporting to Mission to Planet Earth (MTPE) management. Each Project is responsible for arranging funding from MTPE Code 170 for its respective activities to achieve operational capability by ADEOS II launch (August 1999).

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## **4. SYSTEM RESPONSIBILITIES**

### **4.1 ESDIS Project**

- 4.1.1 Assign the JPL Physical Oceanography Distributed Active Archive Center (JPL PO.DAAC) responsibility for archive and distribution of SeaWinds Project data products. Such responsibilities include archive of data products, metadata, ancillary data, correlative data and other information, according to EOSDIS archive policies; and distribution of these data to the ADEOS II/SeaWinds Science Working Team (A/SWSWT) and other users, according to EOSDIS data distribution policies. The JPL PO.DAAC is assigned responsibility for serving as ESDIS Project implementers in carrying out the details of the ESDIS Project responsibilities.
- 4.1.2 The ESDIS Project will fund and provide the domestic and transpacific communication circuits and terminal equipment in the US for the SeaWinds Project acquisition of SeaWinds data, ancillary data, instrument operations data and for the distribution of the SeaWinds data products.

### **4.2 JPL PO.DAAC (As ESDIS Designee)**

- 4.2.1 Distribute selected data products and supporting data to the A/SWSWT during the instrument calibration and validation period that precedes the routine operations.
- 4.2.2 Distribute SeaWinds Standard Products (SSP) to the A/SWSWT and other users within 5 working days of the receipt of the SSP during the routine operations mission period.
- 4.2.3 Distribute SeaWinds Special Products to the A/SWSWT and other users, as approved through the process for establishing data set priorities outlined in the "EOSDIS DAAC Strategic Management Plan."
- 4.2.4 Produce and distribute value-added SeaWinds Standard data products developed in cooperation with the SeaWinds Project, the A/SWSWT and the ESDIS Project to the A/SWSWT and other users, as approved through the process for establishing data set priorities outlined in the "EOSDIS DAAC Strategic Management Plan."
- 4.2.5 Make SeaWinds Standard and Special data products available for order by the general community after SeaWinds Project verification period is declared complete.
- 4.2.6 Support the SeaWinds Project in defining metadata contents to be used by EOSDIS for describing and advertising SeaWinds Standard and Special data products.
- 4.2.7 Provide access to SeaWinds metadata according to EOSDIS policies.

- 4.2.8 Receive and archive SeaWinds initial-processed and reprocessed data products from the SeaWinds processing system in accordance with the SeaWinds / JPL PO.DAAC Interface Control Document (ICD). Note: The total assemblage of SeaWinds data products may include materials necessary for archiving, but unsuitable for distribution as Standard or Special data products.
- 4.2.9 Support the SeaWinds Project for testing of the interfaces between the SeaWinds data processing system and the JPL PO.DAAC.
- 4.2.10 Distribute reprocessed SeaWinds Standard and Special data products, as well as originally processed data products, as mutually agreed with the SeaWinds Project.
- 4.2.11 Establish and operate the communications link between the SeaWinds data processing system and the JPL PO.DAAC in coordination with the SeaWinds Project.
- 4.2.12 Prepare a SeaWinds User Handbook Supplement to describe to scientific users value-added SeaWinds Standard data product changes and Special Products; release, distribute and maintain the SeaWinds User Handbook and Supplements.
- 4.2.13 Provide Directory Interchange Format (DIF) describing the SeaWinds data products to the Global Change Master Directory.
- 4.2.14 Provide inventory entries describing each granule of the SeaWinds Standard data products to the Japanese Earth Observation Center (EOC).
- 4.2.15 Assist data recipients with information related to archive and distribution functions.
- 4.2.16 Provide distribution accounting reports to the SeaWinds Project.
- 4.2.17 Receive ancillary AMSR Level 1 data and distribute the SeaWinds required subset to the SeaWinds Project in accordance with the SeaWinds / JPL PO.DAAC ICD.
- 4.2.18 Generate Guide entries as necessary to describe SeaWinds data products.

### **4.3 SeaWinds Project**

- 4.3.1 Provide the SeaWinds data products, (including processed and reprocessed data), as well as required metadata contents, ancillary data, correlative data, documentation on science algorithms, and other information to the JPL PO.DAAC, in accordance with the SeaWinds/JPL PO.DAAC ICD.
- 4.3.2 Provide SeaWinds Project-generated Special data products to the JPL PO.DAAC, in accordance with the SeaWinds/JPL PO.DAAC ICD.
- 4.3.3 Support the definition of value-added SeaWinds Standard data products developed and produced by the JPL PO.DAAC.

- 4.3.4 Provide EOSDIS required metadata content to be used by EOSDIS for describing and advertising SeaWinds Standard and SeaWinds Project-generated Special data products.
- 4.3.5 Provide documented data processing methodology, quality assessment indicators and processing history to the JPL PO.DAAC.
- 4.3.6 Prepare a SeaWinds User Handbook to describe to scientific users the format and content of the SeaWinds Standard data products.
- 4.3.7 Provide SeaWinds User Handbook supplements for SeaWinds Project produced Special data products.
- 4.3.8 Provide to the JPL PO.DAAC the availability schedules for SeaWinds products.
- 4.3.9 Send the SeaWinds data to the JPL PO.DAAC and receive the subset of ancillary AMSR Level 1 data from the JPL PO.DAAC in accordance with the SeaWinds / JPL PO.DAAC ICD.
- 4.3.10 Lead the system testing of the interfaces between the SeaWinds data processing system and the JPL PO.DAAC.



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## **5. DOCUMENTATION RESPONSIBILITIES**

This section describes the documents beyond this IPA to be developed and maintained either by the JPL PO.DAAC or by the SeaWinds Project that describe the IPA details.

### **5.1 JPL PO.DAAC**

- 5.1.1 Support the SeaWinds Project in preparing the SeaWinds / JPL PO.DAAC ICD.
- 5.1.2 Prepare SeaWinds User Handbook Supplements, as required.
- 5.1.3 Prepare the JPL PO.DAAC Data Management Plan for SeaWinds data.
- 5.1.4 Support the SeaWinds Project in defining the data to be archived.

### **5.2 SeaWinds Project**

- 5.2.1 Define the SeaWinds data to be archived and the information to be included in the JPL PO.DAAC.
- 5.2.2 Prepare the specifications for SeaWinds data products.
- 5.2.3 Lead the preparation of the SeaWinds / JPL PO.DAAC ICD to specify methods of data transfer, data format, and data content.
- 5.2.4 Prepare the SeaWinds User Handbook and supplements for Special data products processed by the SeaWinds Project.

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## **6. SCHEDULING REQUIREMENTS**

- 6.1 The SeaWinds Project and JPL PO.DAAC will mutually define the JPL PO.DAAC support milestones to be included in the SeaWinds Project Milestone Schedule.
- 6.2 The SeaWinds Project shall accommodate JPL PO.DAAC participation in SeaWinds Project reviews.
- 6.3 Schedule changes will be coordinated between the SeaWinds Ground System Project Element Manager and the JPL PO.DAAC Manager.
- 6.4 The respective responsibilities will be implemented, tested and operational by ADEOS II launch (August 1999).

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## **7. REPORTING REQUIREMENTS**

The SeaWinds Project and JPL PO.DAAC will support each other's current reporting practices.

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## **8. FUNDING RESPONSIBILITY**

ESDIS and the SeaWinds Project will individually arrange for funding of their activities directly with MTPE Code 170. No SeaWinds resources will be used for development of the JPL PO.DAAC capabilities nor for JPL PO.DAAC operations activities, equipment or supplies. No JPL PO.DAAC resources will be used for development of the SeaWinds Project capabilities nor for SeaWinds Project operations activities, equipment or supplies.



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## **9. MANAGEMENT**

- 9.1 The JPL PO.DAAC Manager and the SeaWinds Ground System Project Element Manager are responsible for coordinating the activities and responsibilities for their respective projects as listed in this IPA.
- 9.2 This IPA will enter into force on the date the document is signed. This agreement may be modified only upon mutual agreement of the SeaWinds Project and the JPL PO.DAAC. This IPA will remain in force until the JPL PO.DAAC has received all SeaWinds data to be archived and distributed.

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